

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Inventors: HABIBI, Babak; PESCARU, Simona, SAMETI, Mohammad,
BOCA, Remus Florinel.

Title: METHOD AND APPARATUS FOR SINGLE IMAGE
3D VISION GUIDED ROBOTICS

Filed: Herewith

Date: 5 August 2003

Commissioner for Patents
Washington, D.C. 20231

Dear Sir/Madam:

Disclosure Statement Pursuant to 37 C.F.R. §1.56

Preliminary to the examination of this application, the applicant wishes to draw the Examiner's attention to the references listed on the attached copy of form PTO-1449. For the Examiner's convenience, copies of each of the listed references are submitted herewith.

REMARKS

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If the Examiner applies any of the documents as prior art against any claim in the application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Respectfully submitted,

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LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE STATEMENT
[Form PTO-1449 (Modified)]

United States Patent Documents

Examiner	ID	Patent No.	Issue Date	Inventor(s)	Class	Sub-Cl	Filing Date
	US: 1	3,986,007	12 Oct 1976	Ruoff, Jr.			
	US: 2	4,146,924	27 Mar 1979	Birk et al.			
	US: 3	4,219,847	26 Aug 1980	Pinkney et al.			
	US: 4	4,305,130	8 Dec 1981	Kelley et al.			
	US: 5	4,334,241	8 Jun 1982	Kashioka et al.			
	US: 6	4,437,114	13 Mar 1984	LaRussa			
	US: 7	4,613,942	23 Sep 1986	Chen			
	US: 8	4,654,949	7 Apr 1987	Pryor			
	US: 9	4,942,539	17 Jul 1990	McGee et al.			
	US: 10	5,696,673	9 Dec 1997	Pryor			
	US: 11	5,956,417	21 Sep 1999	Pryor			
	US: 12	5,959,425	28 Sep 1999	Bieman et al.			
	US: 13	6,044,183	28 Mar 2000	Pryor			
	US: 14	6,141,863	7 Nov 2000	Hara et al.			

	US: 15	6,167,607	2 Jan 2001	Pryor			
	US: 16	6,211,506	3 Apr 2001	Pryor et al.			
	US: 17	6,301,763	16 Oct 2001	Pryor			

Other Art

Examiner	ID	Author, Title, Date, Pertinent Pages, etc.
	OA: 1	Roger Y. Tsai and Reimar K. Lenz, "A New Technique for Fully Autonomous and Efficient 3D Robotics Hand/Eye Calibration", <i>IEEE Transactions on Robotics and Automation</i> , Vol. 5, No. 3, June 1989 p. 345
	OA: 2	Zhengyou Zhang, "A Flexible New Technique for Camera Calibration", http://research.microsoft.com/scripts/pubs/view.asp?TR_ID=MSR-TR-98-71
	OA: 3	Guo-Qing Wei, Klaus Arbter, and Gerd Hirzinger, "Active Self-Calibration of Robotic Eyes and Hand-Eye Relationship with Model Identification", <i>IEEE Transactions on Robotics and Automation</i> , Vol 14, No. 1, February 1998 p. 158
	OA: 4	Yancai Liu, Thomas S. Huang and Olivier D. Faugeras, "Determination of Camera Location from 2-D to 3-D Line and Point Correspondences", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , Vol. 12, No. 1, January 1990 p. 28
	OA: 5	Chien-Ping Lu, Gregory D. Hager and Eric Mjolsness, "Fast and Globally Convergent Pose Estimation from Video Images", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , Vol. 22, No. 6, June 2000 p. 610
	OA: 6	Thomas Huang, Alfred M. Bruckstein, Robert J. Holt, and Arun N. Netravali, "Uniqueness of 3D Pose Under Weak Perspective: A Geometrical Proof", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , Vol. 17, No. 12, December 1995 p. 1220

Examiner: _____

Date Considered: _____

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance **and** not considered. Include copy of this form with next communication to applicant.